PATENT COOPERATION TREATY

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From the INTERNATIONAL SEARCHING AUTHORITY

To: RICHARD T. ROCHE	PCT			
QUARLES & BRADY LLP 411 E. WISCONSIN AVENUE MILWAUKEE, WI 53202	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION			
,	(PCT Rule 44.1)			
	Date of mailing (day/month/year) 10 MAY 2005			
Applicant's or agent's file reference 630666.00010	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/US04/27926	International filing date (day/month/year) 27 August 2004 (27.08.2004)			
Applicant MAYO FOUNDATION FOR MEDICAL EDUCATION AND I				
1. The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.				
Filing of amendments and statement under Article 19 The applicant is entitled, if he so wishes, to amend the c				
When? The time limit for filing such amendments i search report.	· · · · · · · · · · · · · · · · · · ·			
Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35				
For more detailed instructions, see the notes on the accompanying sheet.				
<u> </u>	The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.			
3. With regard to the protest against payment of (an) add	itional fee(s) under Rule 40.2, the applicant is notified that:			
the protest together with the decision thereon has be request to forward the texts of both the protest and	een transmitted to the International Bureau together with the applicant's the decision thereon to the designated Offices.			
no decision has been made yet on the protest; the a	pplicant will be notified as soon as a decision is made.			
4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.				
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.				
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.				
· -	this (or later) will apply even if no demand is filed within 19 months. The applicable time limits, Office by Office, see the PCT Applicant's			
Guide, Volume II, National Chapters and the WIPO Internet site				
Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Poy 1450	Authorized officer Irina S. Zemel In the second of the s			
P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. 571-272-05/7			

Facsimile No. (703) 305-3230 Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 630666.00010	FOR FURTHER ACTION 2	see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US04/27926	International filing date (day/mo 27 August 2004 (27.08.2004)	nth/year)	(Earliest) Priority Date (day/month/year) 29 August 2003 (29.08.2003)
Applicant MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH			
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of			
5. With regard to the abstract, the text is approved as subm the text has been established may, within one month from	l, according to Rule 38.2(b), by the	nis Authority national searc	as it appears in Box No. IV. The applicant the report, submit comments to this Authority.
as suggested by the	Authority, because the applicant factority, because this figure bett	ailed to sugg	est a figure.

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/27926 -

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C08J 9/00; C08K 5/00 US CL : 521/61, 102, 130, 149				
	International Patent Classification (IPC) or to both na	tional classification and IPC		
	DS SEARCHED			
		ay alassification symbols)		
	cumentation searched (classification system followed b 21/61, 102, 130, 149	y classification symbols)		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST (USPAT, Pre-grant Pub, EPO, JPAT, Derwent). Keywords: hydrogel, porogen, biodegradable, scaffold.				
C. DOCU	JMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.	
Х	US 6,271,278 B1 (PARK et al) 7 August 2001, entir	e document, especially columns 6-11	1-28	
A	A US 6,395,300 B1 (STRAUB et al) 28 MAY 2002, entire document		1-28	
Eusthon	documents are listed in the continuation of Box C.	See patent family annex.		
	pecial categories of cited documents:	"T" later document published after the inte	emational filing date or priority	
•		date and not in conflict with the applic	eation but cited to understand the	
	defining the general state of the art which is not considered to be lar relevance	principle or theory underlying the inve	ention	
"E" earlier ap	plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be conside when the document is taken alone		
"L" document establish t specified)	which may throw doubts on priority claim(s) or which is cited to he publication date of another citation or other special reason (as	"Y" document of particular relevance; the considered to involve an inventive step	when the document is	
"O" document	referring to an oral disclosure, use, exhibition or other means	combined with one or more other such being obvious to a person skilled in the		
priority da	published prior to the international filing date but later than the ate claimed	"&" document member of the same patent		
Date of the actual completion of the international search Date of mailing of the international search report NAY 2005			ch report	
01 April 2003 (01.04.2003)			1	
rathe and maring address of the fortion		Authorized officer	111/1/	
	1 Stop PCT, Attn: ISA/US nmissioner for Patents	Irina S. Zemel Muff	IN I	
P.O	. Box 1450	Telephone No. 571-272-0577		
	kandria, Virginia 22313-1450 (703) 305-3230			

Form PCT/ISA/210 (second sheet) (January 2004)

PATENT COOPERATION TREATY

From the	TIONAL SEARCE	HING AUTH	IORITY		
TO: RICHARD T. ROCHE QUARLES & BRADY LLP 411 E. WISCONSIN AVENUE MILWAUKEE, WI 53202		PCT			
		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
					(PCT Rule 43bis.1)
				Date of mailing (day/month/year) 10 MAY 20115	
Applicant'	Applicant's or agent's file reference			FOR FURTHER ACTION See paragraph 2 below	
630666.00			1.51		I P : ' day (day)
Internation	nal application No).	International filing date		Priority date (day/month/year)
PCT/US04	4/27926	antion (IDC)	or both national classification		29 August 2003 (29.08.2003)
					;
Applicant		700 and US	Cl.: 521/61, 102, 130, 149		
MAYO F	OUNDATION FO	OR MEDICA	L EDUCATION AND RI	ESEARCH	
1. This o	opinion contains i	ndications re	lating to the following iten	18:	
	Box No. I	Basis of the	e opinion		
	Box No. II	Priority			
	Box No. III	Non-establ	ishment of opinion with re	gard to novelty, inve	entive step and industrial applicability
	Box No. IV Lack of unity of invention				
	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain do	cuments cited		
	Box No. VII	Certain def	fects in the international ap	plication	
	Box No. VIII	Certain obs	servations on the internation	onal application	
2. FUR	THER ACTIO	N			
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.					
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.					
For fi	urther options, sec	e Form PCT/	/ISA/220.		
3. For fi	urther details, see	notes to For	m PCT/ISA/220.		
Name and	mailing address	of the ISA/ L	JS	Authorized office	r r r r r r r r r r
1	Mail Stop PCT, Att Commissioner for P	n: ISA/US		Irina S. Zemel	auf Well
1	P.O. Box 1450				
Alexandria, Virginia 22313-1450		Telephone No. 571-272-0577			

Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	
PCT/US04/27926	

Box No	o. I Basis of this opinion
	_
1. With it was	regard to the language, this opinion has been established on the basis of the international application in the language in which filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With claim	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the ed invention, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	in written format
	in computer readable form
c.	time of filing/furnishing
	contained in international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Addi	tional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/27926

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step of	or industrial
applicability; citations and explanations supporting such statement	

1. Statement		
Novelty (N)	Claims NONE	YES
	Claims 1-28	NO
Inventive step (IS)	Claims NONE	YES
	Claims 1-28	NO
Industrial applicability (IA)	Claims 1-28	YES
,	Claims NONE	NO

2. Citations and explanations:

Claims 1-28 novelty under PCT Article 33(2) as being anticipated by US Patent 6,271,278 to Park et al.

Park discloses compositions for making porous scaffolds comprising biodegradable unsaturated polymer, crosslinking agents and a bidegradable porogens. Among suitable porogens, hydrogel micropartcles based on crosslinked collagen derivatives, crosslinked polyethylene glycols and many other suitable microgels are expressly disclosed in column 6, lines 52 to column 7, line 5. The biodegradable polymers disclosed in the reference include methacrylates and fumarates. See column 6, lines 24-43. The disclosed compositions can further include water and various bioactive agents. The invention is useful for various application such as long term drug delivery and can be placed in human or animal body. The invention as claimed, therefore, is anticipated by the Park reference.

Claims 1-28 meet the criteria set out in PCT Article 33(4), and thus meet industrial applicability because the subject matter claimed can be made or used in industry.

Form PCT/ISA/237 (Box No. V) (January 2004)